

Neil Chernoff

Education

- B.A., Brooklyn College, Brooklyn, NY; Biology, 1963.
- M.S., Ph.D., University of Miami, Miami, FL; Zoology, 1969.

Professional Experience

- 1971-present: Scientist, EPA..
- 1980-1981: Chief, Developmental Biology Branch, EPA.
- 1981-1987: Director, Developmental Biology Division, EPA.

Research Interests

- Teratogenesis, gene expression, toxicology testing methodologies.
- Relationships of maternal and fetal toxicities.
- Intergenerational effect, long term effects of pre- and postnatal undernutrition.

Professional Activities

- Adjunct Faculty: School of Agriculture and Life Sciences, North Carolina State University, Raleigh, NC.; Department of Toxicology, North Carolina State University, Raleigh, NC
- Editorial boards: Teratogenesis, Carcinogenesis and Mutagenesis, Journal of Applied Toxicology, Toxicology Methods: New Approaches in Toxicology and Safety Assessment, Archives of Environmental Contamination and Toxicology, Toxicology Mechanisms and Methods.

Selected Publications

Rogers EH, Zehr RD, Gage MI, Humpage AR, Falconer IR, Marr M, Chernoff N. 2007. The cyanobacterial toxin, cylindrospermopsin, induces fetal toxicity in the mouse after exposure late in gestation. *Toxicology*. 49:855-64. [Abstract](#)

Hunter ES, Blanton MR, Rogers EH, Mole M, Andrews JE, Chernoff N. 2006. Short-term exposures to dihaloacetic acids produce dysmorphogenesis in mouse conceptuses *in vitro*. *Reprod Toxicol*. 22:443-48. [Abstract](#)

Hunter ES, Rogers EH, Blanton MR, Richard AM, Chernoff N. 2006. Bromochloro-haloacetic acids: Effects on mouse embryos *in vitro* and QSAR considerations. *Reprod Toxicol*. 21:260-6. [Abstract](#)

Rogers EH, Hunter ES, Moser VC, Phillips PM, Herkovits J, Munoz L, Hall LL, Chernoff N. 2005. Potential developmental toxicity of anatoxin-a, a cyanobacterial toxin. *J Appl Toxicol.* 25:527-34. [Abstract](#)

Rogers JM, Chernoff N, Keen CL, Daston GP. 2005. Evaluation and interpretation of maternal toxicity in Segment II studies: Issues, some answers and data needs. *Toxicol Appl Pharmacol.* 207:367-74. [Abstract](#)

Macphail RC, Farmer JD, Jarema KA, Chernoff N. 2005. Nicotine effects on the activity of mice exposed prenatally to the nicotinic agonist anatoxin-aa. *Neurotoxicol Teratol.* 27:593-8. [Abstract](#)

Chernoff N, Rogers JM. 2004. Supernumerary ribs in developmental toxicity bioassays and in human populations: Incidence and biological significance. *J Toxicol Environ Health B Crit Rev.* 7:437-49. [Abstract](#)

Rogers JM, Setzer RW, Branch S, Chernoff N. 2004. Chemically induced supernumerary lumbar ribs in CD-1 mice: Size distribution and dose response. *Birth Defects Res B Dev Reprod Toxicol.* 71:17-25. [Abstract](#)

Kawanishi CY, Hartig PC, Bobseine KL, Schmid JE, Cardon MC, Massenburg GS, Chernoff N. 2003. Axial skeletal and hox expression domain alterations induced by retinoic acid, valproic acid and bromoxynil during murine development. *J Biochem Mol Toxicol.* 17:346-56. [Abstract](#)

Rogers EH, Hunter ES, Rosen MB, Rogers JM, Lau C, Hartig PC, Francis BM, Chernoff N. 2003. Lack of evidence for intergenerational reproductive effects due to prenatal and postnatal undernutrition in the female CD-1 mouse. *Reprod Toxicol.* 17:519-25. [Abstract](#)

Cherrington JW, Chernoff N. 2002. Periods of vertebral column sensitivity to boric acid treatment in CD-1 mice *in utero*. *Reprod Toxicol.* 16:237-43. [Abstract](#)

Rosen MB, Chernoff N. 2002. 5-aza-2'-deoxycytidine-induced cytotoxicity and limb reduction defects in the mouse. *Teratology.* 65:180-90. [Abstract](#)

Chernoff N, Hunter ES, Hall LL, Rosen MB, Brownie CF, Malarkey D, Marr M, Herkovits J. 2002. Lack of teratogenicity of microcystin-LR in the mouse and toad. *J Appl Toxicol.* 22:13-7. [Abstract](#)